

8-30-00

CONTINUING PATENT APPLICATION TRANSMITTAL

(for Continuing Applications

under 37 C.F.R. §1.53(b))

Attorney Docket No. 68570

First Named Inventor or

Application Identifier: Lamkin, et al.

JC810 U.S. PTO
08/28/00

Box PATENT APPLICATION
Commissioner for Patents
Washington, D.C. 20231

Sir:

This is a request under 37 C.F.R.
§1.53(b) for filing a:

- () Continuation application,
- () Divisional application,
- (X) Continuation-in-Part application,

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of pending prior application number ____/____ (Not yet assigned) (Our
Docket No. 68532, filed on 8/24/00 of Lamkin, et al., for SOFTWARE ENGINE
FOR COMBINING VIDEO OR AUDIO CONTENT WITH PROGRAMMATIC CONTENT.

- 1. () This is a continuation or divisional application. Enclosed is
a copy of the prior application as originally filed, including
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- or -

- (X) Enclosed is a patent application (for continuation, divisional,
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(X) 28 pages of the specification (including claims).

(X) 3 sheets of drawings (X) Formal () Informal.

- 2. () Amend the specification by inserting before the first line
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[] continuation-in-part, of prior application number
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which is hereby incorporated herein by reference in its
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002220 "E" 254950

11. () A separate written request under 37 C.F.R. §1.136(a)(3), which is a general authorization to treat any concurrent or future reply requiring a petition for an extension of time under 37 C.F.R. §1.136(a) for its timely submission as incorporating a petition for an extension of time for the appropriate length of time, is enclosed.
12. () An Information Disclosure Statement is enclosed.
13. () A MicroFiche Computer Program (Appendix) is enclosed.
14. (X) A Return Receipt Postcard is enclosed (MPEP §503).
15. () A Nucleotide and/or Amino Acid Sequence Submission is enclosed.
16. () Priority of application number ____/____ filed on _____ in _____ is claimed under 35 U.S.C. §119.
17. (X) Power of Attorney:
 - (X) The power of attorney in the prior application is to:
 - (X) Thomas F. Lebens Reg. No. 38,221
 FITCH, EVEN, TABIN, & FLANNERY
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 Chicago, Illinois 60603-3406
 and other members of the firm.
 - (X) Customer Number 22242.
 - (X) The power appears in the original papers in the prior application.
18. () Cancel in this application original claims _____ of the prior application before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)
19. (X) The filing fee is calculated below:

Fee Calculation for Claims as Filed in the Prior Application, Less Any Claims Cancelled by Amendment		
(X) Basic Utility Fee	\$ 690.00	\$ <u>690.00</u>
• (X) Independent Claims <u>4</u> - 3 = <u>1</u> x \$ 78.00 =		\$ <u>78.00</u>
• (X) Total Claims <u>10</u> - 20 = <u>0</u> x \$ 18.00 =		\$ <u>0</u>
Total of above Calculations		\$ <u>768.00</u>
Reduction by 50% for Filing by Small Entity		\$ _____
Total		\$ <u>768.00</u>

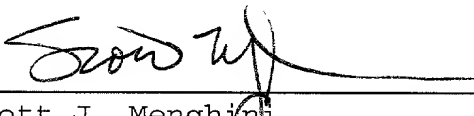
20. (X) The payment of the Filing Fee is to be deferred until the Declaration is filed. Do not charge our Deposit Account.
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United States Patent Application

SOFTWARE ENGINE FOR COMBINING
VIDEO OR AUDIO CONTENT WITH PROGRAMMATIC CONTENT

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Carrie Merzbacher
(Typed name of person mailing)

(Signature of person mailing)

**SOFTWARE ENGINE FOR COMBINING
VIDEO OR AUDIO CONTENT WITH PROGRAMMATIC CONTENT**

5

This patent document is a Continuation-in-part of U.S. Patent Application Serial Number (not yet assigned), filed on August 24, 2000 (Our Docket No. 68532, for SOFTWARE ENGINE FOR COMBINING VIDEO OR AUDIO CONTENT WITH PROGRAMMATIC CONTENT, which claims the benefit of U.S. Provisional Patent Application Serial No. 60/220,397, filed on July 24, 2000 for DVD CONTENT GENERATION USING AN XML INTERFACE, all of which are incorporated herein by reference.

15

BACKGROUND OF THE INVENTION

The present invention relates the authoring of video and/or audio content (referred to generically herein as video/audio content), and programmatic content for storage on or transmission through a medium, and more particularly to a software engine for authoring video and/or audio content, and programmatic content for storage on or transmission through a medium, such as an optical storage medium, or a computer network (such as through downloading of a multimedia file, or streaming of video or audio). Even more particularly, the present invention relates to a software engine for receiving a definition for video or audio content and for combining the definition with programmatic content developed in a development environment, and for outputting a ROM image or transmission image as a function of the definition and the programmatic content.

Software authoring tools in the computer software industry provide various mechanisms to assist the

software author in preparing software deliverables
suitable for use by an end user. The purpose of these
software-authoring tools is to provide a mechanism by
which otherwise tedious and repetitive tasks can be
5 streamlined. This may involve, for example, the
conversion of software source code of one type into
software source code of another type or the provision of
subroutine libraries that can be invoked by or included by
a software author in software deliverables in order to
10 effect a business method sought to be achieved through a
particular software implementation.

Recently, a great deal of attention has been
focused on the digital video disk (DVD) industry, with
deployment of DVD technology exceeding that of all prior
15 or similar technologies, e.g., audio cassette tapes, video
tapes, laser disks, compact disks and the like to a
significant degree.

The use of DVD technology on computers, such as
personal computers, has provided a combination that allows
20 a degree of interactivity to be achieved between DVD
content and an end user. Problematically, mechanisms for
controlling DVD hardware using computer software have been
quite primitive and limited in nature, and significant
interactivity has been restrained.

25 With the Internet now a further mechanism for
interactivity, the computer software industry's lack of
DVD interactivity mechanisms has only further been
highlighted.

The present invention advantageously addresses
30 the above and other needs.

SUMMARY OF THE INVENTION

The present invention advantageously addresses the needs above as well as other needs by providing a system and method for authoring video or audio content, and programmatic content for storage on or transmission through a medium.

In one embodiment, the present invention can be characterized as a method for combining video/audio content with programmatic content comprising the following steps: generating authoring output comprising a definition for a variable, and further comprising a representation of the video/audio content; selecting a source file, the source file comprising the variable; searching the source file for the variable, and replacing the variable with the definition for the variable; generating programmatic content in response to the searching; and generating an image as a function of the programmatic content and the representation of the audio/video content.

In a further embodiment, the present invention can be characterized as a system for combining video/audio content with programmatic content. The system searches a source file for a variable, and replaces the variable with a definition for the variable; generates programmatic content in response to the searching; and generates an image as a function of the programmatic content and a representation of the audio/video content.

In yet a further embodiment, the invention can be characterized as a system for combining video/audio content with programmatic content. The system employs a parser adapted to search a source file for a variable,

replace the variable with a definition for the variable,
and generate programmatic content in response to the
searching; and an image engine adapted to generate an
image as a function of the programmatic content and a
5 representation of the audio/video content.

In accordance with another embodiment, the
present invention can be characterized as a software
system employing a searching module for searching a source
file for a variable, and for replacing the variable with a
10 definition for the variable; a content generating module
for generating programmatic content in response to the
searching; and an image generation module for generating
an image as a function of the programmatic content and a
representation of the audio/video content.

15

BRIEF DESCRIPTION OF THE DRAWINGS

The above and other aspects, features and
advantages of the present invention will be more apparent
from the following more particular description thereof,
20 presented in conjunction with the following drawings
wherein:

FIG. 1 is a block diagram showing basic
components that comprise a system for combining
video/audio content and programmatic content for storage
25 on or transmission through a medium;

FIG. 2 is a detailed block diagram illustrating
the basic components shown in FIG. 1 for combining
video/audio content and programmatic content for storage
on or transmission through a medium, such as a digital
30 video disk (DVD); and

FIG. 3 is a flow diagram depicting steps traversed in operation of the system of FIG. 1.

Corresponding reference characters indicate corresponding components throughout the several views of the drawings.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

The following description of the presently contemplated best mode of practicing the invention is not to be taken in a limiting sense, but is made merely for the purpose of describing the general principles of the invention. The scope of the invention should be determined with reference to the claims.

Referring first to FIG. 1, a block diagram is shown of basic components that comprise a system for combining video/audio content and programmatic content for storage on or transmission through a medium. Shown is a Video/Audio authoring environment 100, authoring output 102, a programmatic content development environment 104, a software engine 106, an image 108, a formatter 110, and an output 112.

The Video/Audio Authoring Environment 100 generates the Authoring Output 102, which is provided to the software engine 106 (DVD-ROM engine) then to the Programmatic Content Development Environment 104. The Authoring Output 102 represents, distills and defines the video/audio content on a DVD, such as by representing the title and/or chapter points within the video/audio content using extensible markup language (XML). The Authoring Output 102 further includes at least one definition for at

least one variable to be included in JavaScript and HTML source files, described further hereinbelow. The Programmatic Content Development Environment 106 is used to define and/or select one or more JavaScript and HTML source files, each containing at least one variable. The DVD-ROM Engine 106 matches variables that are defined within the Authoring Output 102 to the at least one variable in the JavaScript and HTML source file in order to generate the image 108 (DVD Image file) that is passed along to the Formatter 110, which is used to generate the output 112 (DVD Output).

The Video/Audio Authoring Environment 100 may be implemented using a combination of software and a computer, such as a personal computer. The personal computer comprises at least one central processing unit (CPU), memory, a display device, and an input device, such as a keyboard. Suitable storage medium, such as a magnetic or optical disk drive, or a memory, coupled to the computer may be used to store the Authoring Output 102 upon generation, and to transfer the Authoring Output 102 to the Programmatic Content Development Environment 104 and the DVD-ROM Engine 106. Similarly, the Programmatic Content Development Environment 104 may be implemented using a combination of software and a personal computer. The computer may be as described above, with a CPU, memory, display and input device. And, suitable storage medium (such as those described above) coupled to the computer may be used to store the JavaScript and HTML source files, and to transfer the JavaScript and HTML source files to the DVD-ROM Engine. The DVD-ROM Engine,

imbedded browser, and displaying content from a URL specified by the DVD-video, DVD-audio or CD-Audio. This can also occur when a user is navigating the DVD-video, DVD-audio, or CD-audio menu structures, and selects a menu
5 item that launches a URL.

The DVD-Video Authoring Environment 200 provides an ability to add URLs to chapter points and time markers that reference the start of a PGC (or program chain). (A program chain is a section of a DVD-video title set, i.e.,
10 of a single DVD. In other words, program chains are smaller segments of video within a DVD-video title set, i.e., on a single DVD. Thus, there can be a sequence program chains on a single DVD. For "Sequential PGCs" a chapter number and PGC number are the same.)

15 In accordance with the present embodiment, if a button is to launch a URL, the button must be authored so that the button navigates to a chapter point. This chapter point specifies the URL to launch. In most cases, the author will choose to display a still image when the
20 device on which the DVD is launched is not able to display DVD-ROM content in accordance with the present embodiment that indicates that web links are only functional in "DVD-ROM-equipped" DVD Players.

The concept of an "association" means that while
25 a movie is playing, a web URL can be associated with a button at any given point. This association has a hierarchy, so that the author can for example, define an overriding URL to the DVD, and then have other URLs take precedence, as the DVD is being played or navigated. For
30 example, the author can add default title and default

chapter URLs to the DVD URL above. At any given time, the user can click on an available AGO Online@ button, and the currently assigned URL, in accordance with the hierarchy, will be launched. Whether or not to launch a particular URL, i.e., display content at the URL in the associated web window, is under control of the user.

The Authoring Output 202 comprises an XML source file generated by the DVD-Video Authoring Environment 200. The DVD-Video Authoring Environment 200, described above, creates the XML source file 202 according to a ROM specification. This XML source file 202 gives an overview of the structure of the DVD, and indicates all events that have been specified by the author, i.e., URLs that are to be "launched" or "associated".

The DVD-ROM Engine 204 comprises runtime software (runtime binaries), an XML Parser, HTML/JAVA, and a DVD-ROM Image Engine. The DVD-ROM Engine 204 is preferably implemented as a dynamic link library (DLL) that can be called by the DVD-Video Authoring Environment. Alternatively, however, the DVD-ROM Engine 204 may be implemented as an executable, which offers that advantage that the DVD-Video Authoring Environment may be on a different computer than the DVD-ROM Engine, e.g., the DVD-Video Authoring Environment 200 may be on a Macintosh computer from Apple, while the DVD-ROM Engine may be on a "PC" operating the Windows operating system from Microsoft.

Alternatively, the DVD-ROM Engine 204 may be implemented as a browser plug-in, ActiveX control, Java class, or even as JavaScript and HTML code. Hence, as will


```

/ROOT
  INSTALL.EXE (WIN)
  README (MAC)
  README.TXT (WIN)
5  DISC.ID
  AUTORUN.INF
  /COMMON
    /CONTENT
      general content (runs on multiple platforms)
10  /SETUP
      LANG.INI
      SETUP_EN.BMP
      SETUP_JA.BMP
      SETUP_FR.BMP
15  LIC_EN.TXT
      LIC_JA.TXT
      LIC_FR.TXT
  /MAC
    /CONTENT
20  content specific to Macintosh platform
    /SETUP
      PCFRIENDLY PLUG IN
      FLASH 4
  /WIN
25  /CONTENT
      content specific to Windows platform
    /SETUP
      PCFRIEND.ICO
      INUNINST.EXE
30  UPDATE.DAT
    /CABINETS
      MAIN.CAB
      VIDEO.CAB
      OTHER.CAB
35  /THIRDPY
      /DRIVERS
      /MACROMED
      SWFLASH.EXE
      /MSIE
40  /EN
      /JA
  /VIDEO_TS

```

Additional directories, runtime software, and
programmatic content are added to the above directory
structure, as needed, in order to support additional
hardware/software platforms, such as different types of
5 personal computers and/or different operating systems, and
consumer electronic devices, e.g., set top boxes and the
like.

Thus, the DVD-ROM Engine 204 of the present
embodiment offers a turnkey, simple Internet solution for
10 all DVDs authored using the DVD-Video Authoring
Environment to generate the Authoring Output that includes
DVD-ROM content. (Note that as shown the Authoring Output
is preferably an extensible markup language (XML) file,
i.e., the XML source file, however, as will be appreciated
15 by the person of ordinary skill in the art, and as
contemplated by the inventors, the Authoring Output may be
any of a number of other formats, including proprietary
formats.)

The DVD-ROM Engine 204 parses the XML source
20 file from the DVD-Video Authoring Environment 200 and
generates the appropriate HTML and JavaScript code to
implement Internet links, as described in further detail
below. The DVD-ROM Engine 204 also combines the HTML and
JavaScript with client binaries.

25 In practice (when the DVD-ROM Engine 204 is
implemented in an executable for, as opposed to a dynamic
link library (DLL)), the XML parser is activated using a
command line; copies a new image of the DVD-ROM content
from a golden image directory to a destination directory;
30 extracts DVD-ROM Engine variables from the XML source file

202; and performs a search and replace of the instances of those variables in the JavaScript and HTML files in the destination directory.

Command line syntax for the XML parser, in
5 accordance with one embodiment, is as follows:
itidvdrom.exe xml_source {/D destination} {/I
golden_image} [/G graphic] [/T tag]

where

10

"xml_source" is a required parameter that specifies a full path of an XML source file, i.e., the Authored Output

"destination" is an optional parameter that specifies a
15 full path to where a golden image is to be copied. If not supplied, an ITI_VAR_DESTINATION variable must be provided in the XML source file.

"golden_image" is an optional parameter that specifies a
20 full path to the golden image of the DVD-ROM content. If not supplied, an ITI_VAR_GOLDEN_IMAGE_PATH variable must be provided in the XML source file.

"graphic" is an optional parameter that specifies the path
25 to a graphic to be used in a DVD-ROM content installation screen. If this argument is not supplied, it can be defined in the XML source file using an ITI_VAR_STARTUP_GRAPHIC variable. If it not defined in either place, a Default DVD-ROM Engine Graphic will be
30 used.

"tag" is an option parameter that specifies the ASCII tag name of the element in the XML source file where the DVD-ROM Engine variables are stored. This is an optional
5 parameter. it is not supplied, the tag name AITIVariables@ used.

Predefined DVD-ROM Engine variables are preferably as follows:

10

ITI_VAR_DESTINATION versus the destination command line argument

ITI_VAR_GOLDEN_IMAGE_PATH versus the golden_image command line argument

15

ITI_VAR_STARTUP_GRAPHIC versus the graphic command line argument

The XML source file 202 preferably has the following
20 characteristics: contains the DVD-ROM Engine variables element as child node of the root element; by default, the name of the variables element should be "ITIVariables@ (another alternate tag name can be used and specified on the application command line, as noted above); all DVD-ROM
25 Engine variables must defined in the variables element; a specific set of variables has been established and includes all of the variables that must be replaced in the JavaScript and HTML source files (if any variables are not present, the XML parser returns an error, and any
30 additional variables, not in the set, are ignored).

The following is an exemplary XML source file, such as may constitute the Authoring Output:

```

5  <?xml version=@1.0@ ?>
   <root_element>
     Y
     Y
     < ITIVariables>
       <ITI_VAR_bookcount>123</ITI_VAR_bookcount>
10    <ITI_VAR_var2>@This is a Test@</ITI_VAR_var2>
       <ITI_VAR_temp>abc</ITI_VAR_temp>
       <ITI_VAR_xyz>qrsabc</ITI_VAR_xyz>
       <ITI_VAR_DESTINATION>@c:\Program
Files\InterActual@</ITI_VAR_DESTINATION>
15  Y
     Y
     </ITIVariables>
     Y
     Y
20  </root_element>

   <?xml version=@1.0@ ?>
   <ITX_Description>
     Y
25  Y
     < DVDVideo>
       <ITI_VAR_bookcount>123</ITI_VAR_bookcount>
       <ITI_VAR_var2>@This is a Test@</ITI_VAR_var2>
       <ITI_VAR_temp>abc</ITI_VAR_temp>
30    <ITI_VAR_xyz>qrsabc</ITI_VAR_xyz>
       <ITI_VAR_DESTINATION>@c:\Program
Files\InterActual@</ITI_VAR_DESTINATION>
     Y
     Y
35  </ DVDVideo>
     Y
     Y
     </ ITX_Description>
40

```

The XML source file 202 generated by the DVD-Video Authoring Environment 200 is used by the DVD-ROM

Engine 204 to control the copying of the software from the golden image directory (by specifying the runtime software to copy), and the substitution of variables in and the copying of the JavaScript and HTML source files.

5 The JavaScript and HTML source files contain multiple variables that are replaced with valid values prior execution of the JavaScript and HTML source files. (These JavaScript and HTML source files may comprise templates that are provided to the author in order to perform functions such as providing a button associated with a URL, or, as described below may be custom JavaScript and HTML source files that are authored within the Development Environment 206.) The values of these variables are provided in the XML source file. The DVD-ROM Engine 204 parses each JavaScript and HTML source file to find instances of the DVD-ROM Engine variables. When a DVD-ROM Engine variable is found, the DVD-ROM Engine looks the DVD-ROM Engine variable up in the list of variables extracted from the XML source file by the XML Parser. The DVD-ROM Engine 204 then replaces the DVD-ROM Engine variable with the value and writes the file back to disk. This process is repeated for all variables in all JAVA Script and HTML source files in the DVD-ROM Engine directory.

25 The following is exemplary JavaScript code that may constitute a portion of the JavaScript and HTML source files (note that the JavaScript contains variables that will be replaced by values in the XML source file by the DVD-ROM Engine 204):

30

```

class Bookshelf {
    protected book first,last;
    protected long count;

5    Bookshelf()
    {
        first = last = null;
        count = ITI_VAR_bookcount;
    }

10    void add(book aBook)
    {
        if (first != null)
        {
15            last.next = new book(aBook);
            last = last.next;
        }
        else
        {
20            first = new book(aBook);
            last = first;
        }
        count++;
    }

25    long size() { return count; }

    void print()
    {
30        book curBook = first;
        int cnt=1;

        while (curBook != null)
        {
35            System.out.println("Book:
ITI_VAR_Temp" + cnt++);

            System.out.println("ITI_VAR_var2");
            curBook.showBook();
            curBook = curBook.next;
40        }
    }
}

45 Example

```


Using the XML source file 202 from above and the JavaScript code from above, the following JavaScript code results. Note that the variable ITI_VAR_xyz was not used in the code.

```
5  class Bookshelf {
    protected book first,last;
    protected long count;

10  Bookshelf()
    {
        first = last = null;
        count = 123;
    }

15  void add(book aBook)
    {
        if (first != null)
        {
20            last.next = new book(aBook);
            last = last.next;
        }
        else
        {
25            first = new book(aBook);
            last = first;
        }
        count++;
    }

30  long size() { return count; }

    void print()
    {
35        book curBook = first;
        int cnt=1;

        while (curBook != null)
        {
40            System.out.println("Book: abc" +
                cnt++);
            System.out.println("This is a Test
                ");

```


process. This component includes HTML editor plug-ins, templates for JavaScript and HTML source files, documentation, and online developer support. The HTML editors (i.e., the tools identified above) allow authors
5 to create the JavaScript content that will be used as templates by the DVD-ROM Engine 204. The HTML editor plug-ins may allow, for example, custom graphics created by the author and code to perform DVD calls and URL associations. By way of example, the Development Utilities
10 and Templates preferably include code for features such as a Web button (active for, e.g., entire movie), which allows a user to click the web button in a controller or web page and thereby launch a desired web site; an internet button authored into a DVD menu that launches a
15 desired web site; and Title/Chapter naming (and automatic association with actual title/chapter numbers).

The DVD Formatter 212 calls the DVD-ROM Engine 204 and calls another engine that produces the video assets themselves, according to the DVD being created. The
20 DVD Formatter 212 is a component of the DVD-Video Authoring Environment but is shown as separated since the DVD-Video and DVD-ROM images must be combined before creating/formatting the final image/DLT (digital linear tape).

25 FIG. 3 is a flow diagram depicting steps traversed in operation of the system of FIG. 1.

At the outset, Video/Audio Content is authored (Block 300) and Authoring Output is generated (Block 302) as a function thereof. The Authoring Output, as mentioned
30 above, defines a plurality of variables that define the

Video/Audio content to be contained on the DVD. Next,
Programmatic Content (DVD-ROM content) is authored (Blocks
304, 306), or appropriate templates are selected to effect
DVD-ROM content for the DVD. Specifically, appropriate
5 JavaScript and HTML source files are selected or authored,
each containing at least one variable to be defined as a
function of the Video/Audio content and DVD-ROM content to
be placed on to the DVD. As a result of the authoring of
the DVD-ROM content, software, and programmatic content
10 are provided, and then bound with the Authoring Output
(Block 308) (through the DVD-ROM Engine) in order to
generate a DVD image (Block 310). The DVD image is
communicated to the formatter, which formats the DVD
(Block 312), creating final DVD output (Block 314).

15 While the invention herein disclosed has been
described by means of specific embodiments and
applications thereof, numerous modifications and
variations could be made thereto by those skilled in the
art without departing from the scope of the invention set
20 forth in the claims.

List of variables	
Age	10-14
Gender	Male
Marital status	Married
Education	High school
Income	Low
Health status	Good
Living arrangement	Alone
Employment status	Unemployed
Religious affiliation	Protestant
Political affiliation	Democrat
Attending church	Yes
Attending church frequency	Weekly
Attending church duration	10-14
Attending church duration squared	100-140
Attending church duration cubed	1000-1400
Attending church duration to the fourth power	10000-14000
Attending church duration to the fifth power	100000-140000
Attending church duration to the sixth power	1000000-1400000
Attending church duration to the seventh power	10000000-14000000
Attending church duration to the eighth power	100000000-140000000
Attending church duration to the ninth power	1000000000-1400000000
Attending church duration to the tenth power	10000000000-14000000000
Attending church duration to the eleventh power	100000000000-140000000000
Attending church duration to the twelfth power	1000000000000-1400000000000
Attending church duration to the thirteenth power	10000000000000-14000000000000
Attending church duration to the fourteenth power	100000000000000-140000000000000
Attending church duration to the fifteenth power	1000000000000000-1400000000000000
Attending church duration to the sixteenth power	10000000000000000-14000000000000000
Attending church duration to the seventeenth power	100000000000000000-140000000000000000
Attending church duration to the eighteenth power	1000000000000000000-1400000000000000000
Attending church duration to the nineteenth power	10000000000000000000-14000000000000000000
Attending church duration to the twentieth power	100000000000000000000-140000000000000000000
Attending church duration to the twenty-first power	1000000000000000000000-1400000000000000000000
Attending church duration to the twenty-second power	10000000000000000000000-14000000000000000000000
Attending church duration to the twenty-third power	100000000000000000000000-140000000000000000000000
Attending church duration to the twenty-fourth power	1000000000000000000000000-1400000000000000000000000
Attending church duration to the twenty-fifth power	10000000000000000000000000-14000000000000000000000000
Attending church duration to the twenty-sixth power	100000000000000000000000000-140000000000000000000000000
Attending church duration to the twenty-seventh power	1000000000000000000000000000-1400000000000000000000000000
Attending church duration to the twenty-eighth power	10000000000000000000000000000-14000000000000000000000000000
Attending church duration to the twenty-ninth power	100000000000000000000000000000-140000000000000000000000000000
Attending church duration to the thirtieth power	1000000000000000000000000000000-1400000000000000000000000000000
Attending church duration to the thirty-first power	10000000000000000000000000000000-14000000000000000000000000000000
Attending church duration to the thirty-second power	100000000000000000000000000000000-140000000000000000000000000000000
Attending church duration to the thirty-third power	1000000000000000000000000000000000-1400000000000000000000000000000000
Attending church duration to the thirty-fourth power	10000000000000000000000000000000000-14000000000000000000000000000000000
Attending church duration to the thirty-fifth power	100000000000000000000000000000000000-140000000000000000000000000000000000
Attending church duration to the thirty-sixth power	1000000000000000000000000000000000000-1400000000000000000000000000000000000
Attending church duration to the thirty-seventh power	10000000000000000000000000000000000000-14000000000000000000000000000000000000
Attending church duration to the thirty-eighth power	100000000000000000000000000000000000000-140000000000000000000000000000000000000
Attending church duration to the thirty-ninth power	1000000000000000000000000000000000000000-1400000000000000000000000000000000000000
Attending church duration to the fortieth power	100-14000000000000000000000000000000000000000
Attending church duration to the forty-first power	1000-1400
Attending church duration to the forty-second power	100-14000
Attending church duration to the forty-third power	1000-1400
Attending church duration to the forty-fourth power	100-14000
Attending church duration to the forty-fifth power	1000-1400
Attending church duration to the forty-sixth power	100-14000
Attending church duration to the forty-seventh power	1000-1400
Attending church duration to the forty-eighth power	100-140

1. A method for combining video/audio content with programmatic content comprising:

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        selecting a source file, the source file
comprising the variable;

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generating programmatic content in response to the searching; and

2. The method of Claim 1 further comprising storing said image to a storage medium.

3. The method of Claim 1 further comprising transmitting said image through a transmission medium.

4. The method of Claim 1 wherein said searching includes searching said source file at build time.

5. The method of Claim 1 wherein said searching includes searching said source file at run time.

6. The method of Claim 5 wherein said searching includes searching in response to a software engine executed on a browser.

7. The method of Claim 5 wherein said searching includes searching in response to the insertion of a DVD into a hardware device.

8. A system for combining video/audio content with programmatic content comprising:

means for searching a source file for a variable, and for replacing the variable with a definition for the variable;

means for generating programmatic content in response to the searching; and

means for generating an image as a function of the programmatic content and a representation of the audio/video content.

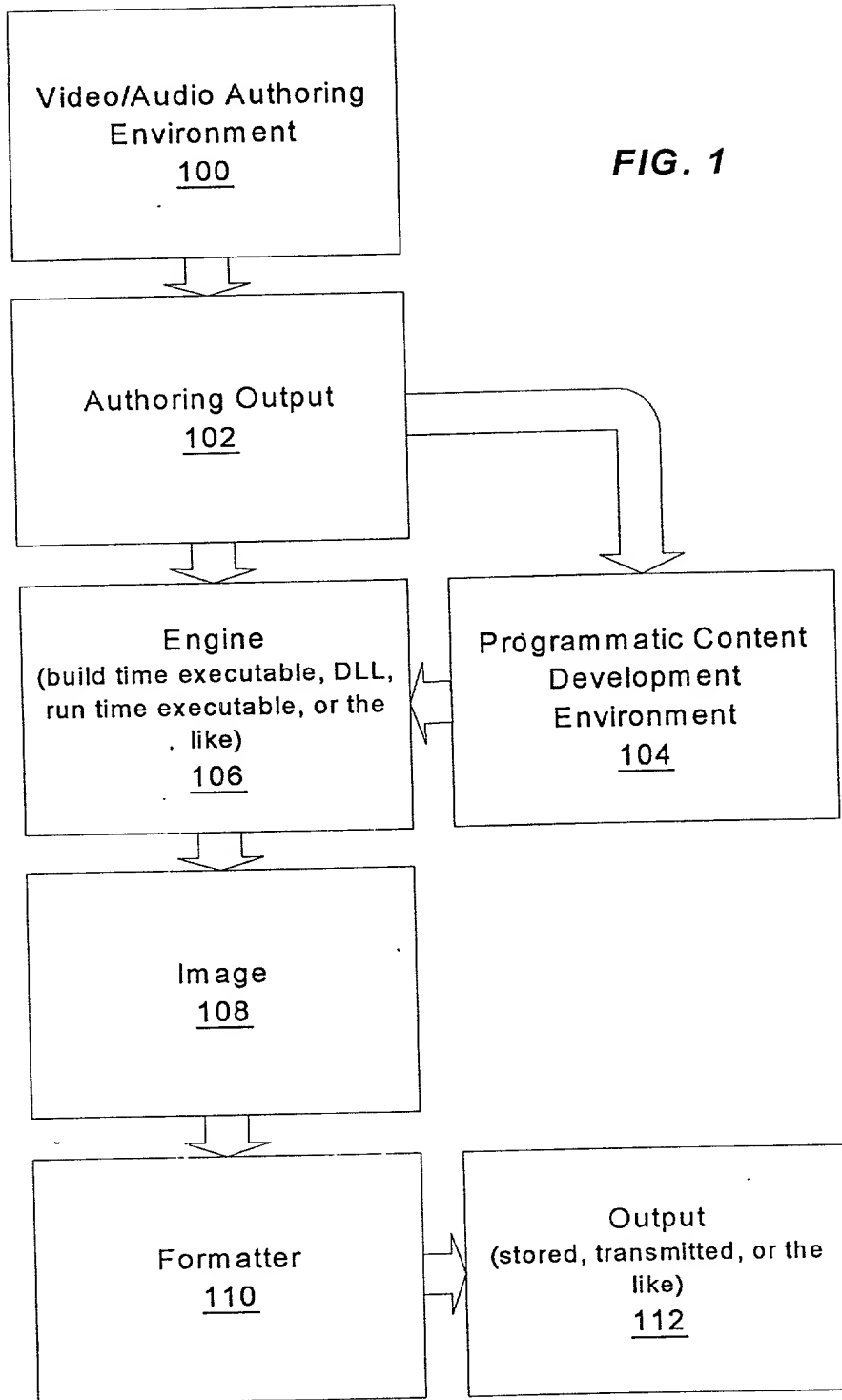
9. A system for combining video/audio content with programmatic content comprising:

a parser adapted to search a source file for a variable, replace the variable with a definition for the variable, and generate programmatic content in response to the searching; and

an image engine adapted to generate an image as a function of the programmatic content and a representation of the audio/video content.

[illegible]

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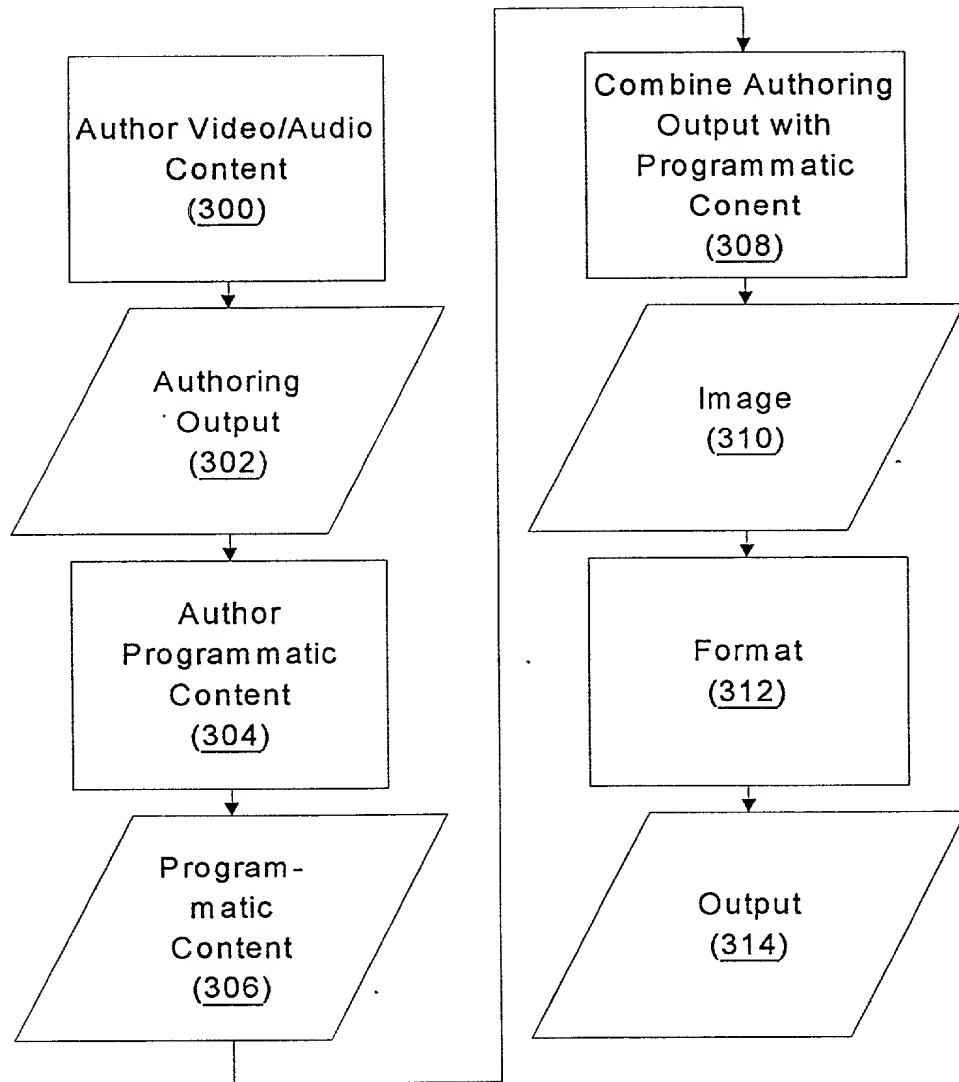


FIG. 3